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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=9; day=3; hr=8; min=50; sec=40; ms=281;]

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Application No: 10539402 Version No: 2.0

Input Set:**Output Set:**

Started: 2009-09-01 16:50:17.498
Finished: 2009-09-01 16:50:21.960
Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 462 ms
Total Warnings: 60
Total Errors: 0
No. of SeqIDs Defined: 162
Actual SeqID Count: 162

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (73)
W 402	Undefined organism found in <213> in SEQ ID (74)
W 213	Artificial or Unknown found in <213> in SEQ ID (109)
W 213	Artificial or Unknown found in <213> in SEQ ID (110)
W 213	Artificial or Unknown found in <213> in SEQ ID (111)
W 213	Artificial or Unknown found in <213> in SEQ ID (112)
W 213	Artificial or Unknown found in <213> in SEQ ID (113)
W 213	Artificial or Unknown found in <213> in SEQ ID (114)
W 213	Artificial or Unknown found in <213> in SEQ ID (115)
W 213	Artificial or Unknown found in <213> in SEQ ID (116)
W 213	Artificial or Unknown found in <213> in SEQ ID (117)
W 213	Artificial or Unknown found in <213> in SEQ ID (118)
W 213	Artificial or Unknown found in <213> in SEQ ID (119)
W 213	Artificial or Unknown found in <213> in SEQ ID (120)
W 213	Artificial or Unknown found in <213> in SEQ ID (121)
W 213	Artificial or Unknown found in <213> in SEQ ID (122)

Input Set:

Output Set:

Started: 2009-09-01 16:50:17.498
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Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 462 ms
Total Warnings: 60
Total Errors: 0
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Actual SeqID Count: 162

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (123)
W 213	Artificial or Unknown found in <213> in SEQ ID (124)
W 213	Artificial or Unknown found in <213> in SEQ ID (125)
W 213	Artificial or Unknown found in <213> in SEQ ID (126)
W 213	Artificial or Unknown found in <213> in SEQ ID (127)
W 213	Artificial or Unknown found in <213> in SEQ ID (128) This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> UNGER, CHRISTINE MARGARETE
 BESTE, GERALD
 ZEHEITMEIER, CAROLIN
 LAIN, BLANCA
 TORELLA, CLAUDIA
 NIEWOHNER, JENS
 JAY, DANIEL G.
 EUSTACE, BRENDA K.
 KNAUER, ROLAND
 JENSEN, KRISTIAN HOBOLD

<120> NEUROPILIN-1 INHIBITORS

<130> MXI-352US

<140> 10539402

<141> 2005-12-22

<150> PCT/EP2003/014756

<151> 2003-12-22

<150> EP 03000615.9

<151> 2003-01-15

<150> 60/435,893

<151> 2002-12-20

<160> 162

<170> PatentIn version 3.5

<210> 1

<211> 269

<212> PRT

<213> Mus sp.

<400> 1

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			20						25					30	

Asp	Ile	Asn	Trp	Val	Lys	Gln	Arg	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
		35					40					45			

Gly	Trp	Ile	Tyr	Pro	Gly	Asp	Gly	Ser	Thr	Lys	Tyr	Asn	Glu	Lys	Phe
		50					55					60			

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Thr Thr Val Tyr

65	70	75	80
Met Gln Leu Ser Ser Leu Thr Ser Glu Asn Ser Ala Val Tyr Phe Cys	85	90	95
Ala Arg Gly Gly Lys Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu	100	105	110
Thr Val Ser Thr Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly	115	120	125
Gly Gly Ser Ala Leu Asp Ile Val Met Thr Gln Ser Pro Lys Phe Met	130	135	140
Ser Thr Ser Val Gly Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln	145	150	155
Asn Val Ala Thr Asn Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser	165	170	175
Pro Lys Pro Leu Thr Tyr Ser Ala Ser Phe Arg Ser Ser Gly Val Pro	180	185	190
Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile	195	200	205
Ser Asn Val Gln Ser Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr	210	215	220
Asn Ser Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys	225	230	235
Ala Ala Ala Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu Glu Pro Arg	245	250	255
Gly Ala Ala Ser Ala Trp Ser His Pro Gln Phe Glu Lys	260	265	

<210> 2

<211> 288

<212> PRT

<213> Mus sp.

<400> 2

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1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Ser Gly Leu Gln Gln Gly Pro Arg Arg Arg Gly Ala Arg
100 105 110

Val Asn Phe Ser Tyr Tyr Gly Leu Asp Val Trp Gly Arg Gly Thr Thr
115 120 125

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
130 135 140

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Ala Ser
145 150 155 160

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser
165 170 175

Asn Ile Gly Arg Asn Tyr Val Phe Trp Tyr Gln Gln Phe Pro Gly Thr
180 185 190

Ala Pro Lys Ile Leu Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val
195 200 205

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala
210 215 220

Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser

225 230 235 240

Trp Asp Asp Ser Leu Thr Trp Val Phe Gly Gly Gly Thr Lys Val Thr
245 250 255

Val Leu Gly Ala Ala Ala Gly Ala Pro Val Pro Tyr Pro Asp Pro Leu
260 265 270

Glu Pro Arg Gly Ala Ala Ser Ala Trp Ser His Pro Gln Phe Glu Lys
275 280 285

<210> 3

<211> 810

<212> DNA

<213> Mus sp.

<400> 3

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cctggacagg gacttgagtg gattggatgg atttatcctg gagatggtag tactaagtac	180
aatgagaaat tcaagggcaa ggccacactg actgtagaca aatcctccac cacagtctac	240
atgcagctca gcagcctgac ttctgagaac tctgcagtct atttctgtgc aagaggtggt	300
aaatactttg actactgggg ccaaggcacc actctcacag tgtcgacagg tggaggcggt	360
tcaggcggag gtggctctgg cgggtggcgga agtgactcg acattgtgat gacacagtct	420
cctaaattca tgtccacatc agtaggagac agggtcagcg tcacctgcaa ggccagtcag	480
aatgtggcta ctaatgtagc ctggtatcaa cagaaaccag ggcaatctcc taaaccactg	540
acttactcgg catccttccg gtccagtgga gtccctgatc gcttcacagg cagtggatct	600
gggacagatt tcaactctcac catcagcaat gtgcagtctg aagacttggc agagtatttc	660
tgtcagcaat ataacagcta tccgtacacg ttcggagggg ggaccaagct ggaaataaaa	720
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<210> 4

<211> 867

<212> DNA

<213> Mus sp.

<400> 4

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85

90

95

Val Thr Ala Val Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr
 100 105 110

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
 115 120 125

Gly Ser Ala Gln Ser Val Val Thr Gln Pro Pro Ser Met Ser Gly Thr
 130 135 140

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile
 145 150 155 160

Gly Arg Asn Tyr Val Tyr Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro
 165 170 175

Lys Leu Leu Ile Tyr Arg Asn Asn Glu Arg Pro Ser Gly Val Pro Asp
 180 185 190

Arg Phe Ser Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser
 195 200 205

Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp
 210 215 220

Asp Ser Leu Ser Gly Thr Trp Val Phe Gly Gly Gly Thr Lys Leu Thr
 225 230 235 240

Val Leu Gly Ala Ala Ala
 245

<210> 6

<211> 248

<212> PRT

<213> Homo sapiens

<400> 6

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
 1 5 10 15

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser
 20 25 30

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ala Ile
35 40 45

Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg
50 55 60

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
65 70 75 80

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly
85 90 95

Gly Gly Arg Tyr Asp Ser Ser His Gly Phe Asp Ser Trp Gly Arg Gly
100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro
130 135 140

Ser Val Ser Val Ala Pro Gly Glu Thr Ala Thr Ile Thr Cys Gly Gly
145 150 155 160

Arg Ser Leu Gly Ser Lys Val Val His Trp Tyr Gln Gln Lys Pro Gly
165 170 175

Gln Ala Pro Thr Leu Val Ile Tyr Tyr Asp Ser Val Arg Pro Ser Gly
180 185 190

Val Pro Glu Arg Phe Ser Ala Ser Asn Ser Arg Leu Ser Ala Thr Leu
195 200 205

Thr Val Ser Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln
210 215 220

Val Trp Asp Arg Ser Ser Asp His Tyr Val Phe Gly Thr Gly Thr Lys
225 230 235 240

Leu Thr Val Leu Gly Ala Ala Ala
245

<211> 248

<212> PRT

<213> Homo sapiens

<400> 7

Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met
20 25 30

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ala
35 40 45

Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
85 90 95

Asp Trp Arg Trp Gln Gln Phe Gly Gly Trp Phe Asp Pro Trp Gly Arg
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Thr Leu Thr Gln Ser
130 135 140

Pro Ala Thr Leu Ser Leu Ser Pro Gly Glu Thr Ala Thr Leu Phe Cys
145 150 155 160

Arg Ala Ser Gln Ser Val Arg Asn Asn Leu Val Trp Tyr Gln Gln Lys
165 170 175

Leu Gly Gln Ala Pro Arg Leu Leu Ile Phe Gly Ala Ser Thr Arg Ala
180 185 190

Ser Gly Ile Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
195 200 205

Ser Leu Thr Ile Thr Lys Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr
210 215 220

Cys Gln Arg Tyr Gly Gly Phe Pro Ile Thr Phe Gly Gln Gly Thr Arg
225 230 235 240

Leu Glu Ile Lys Arg Ala Ala Ala
245

<210> 8
<211> 247
<212> PRT
<213> Homo sapiens

<400> 8
Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
1 5 10 15

Arg Leu Ala Cys Glu Ala Ser Gly Phe Arg Phe Ser Ser Tyr Gly Met
20 25 30

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser
35 40 45

Met Ser Asp Ser Gly Ala Asn Thr Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Met Leu Tyr Leu Gln
65 70 75 80

Met Ser Ser Leu Arg Gly Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
85 90 95

Leu Phe Arg Gly Ser Gly Tyr Val Arg His Trp Gly Arg Gly Thr Leu
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Ala Ser
130 135 140

Gly Thr Pro Gly Gln Arg Val Ile Ile Ser Cys Ser Gly Ser Ser Ser
145 150 155 160

Asn Ile Ala Ser Asn Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr
165 170 175

Ala Pro Lys Leu Leu Ile Ser Lys Asn Ser Arg Arg Pro Ser Gly Val
180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala
195 200 205

Ile Ser Glu Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala
210 215 220

Trp Asp Asp Arg Leu Ser Gly Pro Ala Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala
245

<210> 9
<211> 248
<212> PRT
<213> Homo sapiens

<400> 9
Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly
1 5 10 15

Thr Phe Ser Ser Tyr Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln
20 25 30

Gly Leu Glu Trp Met Gly Gly Ile Ile Pro Met Ser Gly Thr Pro Asn
35 40 45

Tyr Ala Gln Lys Phe Gln Asp Arg Val Thr Ile Thr Ala Asp Lys Ser
50 55 60

Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr
65 70 75 80

Ala Val Tyr Tyr Cys Ala Arg Gly Gly Arg Tyr Val Asp Phe Gly Arg
85 90 95

Gly Pro Ser Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr
100 105 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala
130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ala Thr
145 150 155 160

Ser Asn Ile Gly Arg Asn Tyr Val Tyr Trp Tyr His Gln Leu Pro Gly
16